

Please delete the present Abstract of the Disclosure.

Please add the following new Abstract of the Disclosure:

A method, apparatus, and electrode for electric discharge surface treatment. The electrode is a green compact made by molding metallic powders or metallic compound powders, the green compact being heat treated and used for electric discharge surface treatment in which a pulsed electric discharge is generated between the electrode and a work in a dielectric fluid to form by the electric discharge energy on the surface of the work a coat of a material of the electrode or of a substance that is generated by a reaction of the electrode due to the electric discharge energy, wherein the electrode contains 40 volume % or more Co, Ni, or Fe. Thereby, a thick coat is formed by the in-liquid pulsed electric discharge treatment.